



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: BCOB
Name:
ClientProj: 4035
GTA ProjNo: 100421-4

Site Addr: SPIRIT OF ONEKAMA
5028 MAIN ST
ONEKAMA
Sampled By: DOUG HULL/MCE
Date Rec: 10/4/2021
Time Rec: 2:12 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	CB-1	10/2/2021	1:55 PM	WATER
2	CB-2	10/2/2021	9:35 PM	WATER
3	OF-1	10/2/2021	2:10 PM	WATER
4	MH-2 A	10/2/2021	11:35 AM	WATER
5	MH-2 B	10/2/2021	11:45 AM	WATER
6	MH-2 C	10/2/2021	11:50 AM	WATER
7	MH-1 A	10/2/2021	12:42 PM	WATER
8	MH-1 C	10/2/2021	12:50 PM	WATER
9	MH-1 B	10/2/2021	1:00 PM	WATER
10	MH-3 C	10/2/2021	1:40 PM	WATER
11	MH-1 D	10/2/2021	1:10 PM	WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
Grand Traverse
Analytical 830 Robinwood
Court Traverse City, MI
49686 Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

COMPANY: BCOC
PROJECT NO: 4035
LOCATION: SPIRIT OF ONEKAMA
5028 MAIN ST
ONEKAMA
MI
SAMPLE MATRIX: WATER
SAMPLE ID: CB-1

GTA PROJECT NO: 100421-4
GTA SAMPLE NO: 1
DATE SAMPLED: 10/2/2021
TIME SAMPLED: 1:55 PM
DATE RECEIVED: 10/4/2021
TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	1.5	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	2.9	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

COMPANY: BCOC
PROJECT NO: 4035
LOCATION: SPIRIT OF ONEKAMA
5028 MAIN ST
ONEKAMA
MI
SAMPLE MATRIX: WATER
SAMPLE ID: CB-2

GTA PROJECT NO: 100421-4
GTA SAMPLE NO: 2
DATE SAMPLED: 10/2/2021
TIME SAMPLED: 9:35 PM
DATE RECEIVED: 10/4/2021
TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	98	1.0					
Ethylbenzene	2.3	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BCOC
 PROJECT NO: 4035
 LOCATION: SPIRIT OF ONEKAMA
 5028 MAIN ST
 ONEKAMA
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: OF-1

GTA PROJECT NO: 100421-4
 GTA SAMPLE NO: 3
 DATE SAMPLED: 10/2/2021
 TIME SAMPLED: 2:10 PM
 DATE RECEIVED: 10/4/2021
 TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BCOC
PROJECT NO: 4035
LOCATION: SPIRIT OF ONEKAMA
5028 MAIN ST
ONEKAMA
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MH-2 A

GTA PROJECT NO: 100421-4
GTA SAMPLE NO: 4
DATE SAMPLED: 10/2/2021
TIME SAMPLED: 11:35 AM
DATE RECEIVED: 10/4/2021
TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	4.6	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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LOD = LIMIT OF DETECTION

COMPANY: BCOC
PROJECT NO: 4035
LOCATION: SPIRIT OF ONEKAMA
5028 MAIN ST
ONEKAMA
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MH-2 B

GTA PROJECT NO: 100421-4
GTA SAMPLE NO: 5
DATE SAMPLED: 10/2/2021
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 10/4/2021
TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BCOC
 PROJECT NO: 4035
 LOCATION: SPIRIT OF ONEKAMA
 5028 MAIN ST
 ONEKAMA
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MH-2 C

GTA PROJECT NO: 100421-4
 GTA SAMPLE NO: 6
 DATE SAMPLED: 10/2/2021
 TIME SAMPLED: 11:50 AM
 DATE RECEIVED: 10/4/2021
 TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BCOC
 PROJECT NO: 4035
 LOCATION: SPIRIT OF ONEKAMA
 5028 MAIN ST
 ONEKAMA
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MH-1 A

GTA PROJECT NO: 100421-4
 GTA SAMPLE NO: 7
 DATE SAMPLED: 10/2/2021
 TIME SAMPLED: 12:42 PM
 DATE RECEIVED: 10/4/2021
 TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY:	BCOC	GTA PROJECT NO:	100421-4
PROJECT NO:	4035	GTA SAMPLE NO:	8
LOCATION:	SPIRIT OF ONEKAMA 5028 MAIN ST ONEKAMA MI	DATE SAMPLED:	10/2/2021
		TIME SAMPLED:	12:50 PM
		DATE RECEIVED:	10/4/2021
		TIME RECEIVED:	2:12 PM
SAMPLE MATRIX:	WATER	SAMPLED BY:	DOUG HULL/MCE
SAMPLE ID:	MH-1 C		

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: BCOC
 PROJECT NO: 4035
 LOCATION: SPIRIT OF ONEKAMA
 5028 MAIN ST
 ONEKAMA
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MH-1 B

GTA PROJECT NO: 100421-4
 GTA SAMPLE NO: 9
 DATE SAMPLED: 10/2/2021
 TIME SAMPLED: 1:00 PM
 DATE RECEIVED: 10/4/2021
 TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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 LOD = LIMIT OF DETECTION



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COMPANY: BCOC
 PROJECT NO: 4035
 LOCATION: SPIRIT OF ONEKAMA
 5028 MAIN ST
 ONEKAMA
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MH-3 C

GTA PROJECT NO: 100421-4
 GTA SAMPLE NO: 10
 DATE SAMPLED: 10/2/2021
 TIME SAMPLED: 1:40 PM
 DATE RECEIVED: 10/4/2021
 TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/6/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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 LOD = LIMIT OF DETECTION

COMPANY: BCOC
PROJECT NO: 4035
LOCATION: SPIRIT OF ONEKAMA
5028 MAIN ST
ONEKAMA
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MH-1 D

GTA PROJECT NO: 100421-4
GTA SAMPLE NO: 11
DATE SAMPLED: 10/2/2021
TIME SAMPLED: 1:10 PM
DATE RECEIVED: 10/4/2021
TIME RECEIVED: 2:12 PM

SAMPLED BY: DOUG HULL/MCE

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/6/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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LOD = LIMIT OF DETECTION

CHAIN OF CUSTODY

PROJECT NUMBER <i>4035</i>	SITE NAME/ADDRESS <i>Spirit of Onokama 5028 Main St, Onokama, MI 49675</i>	COMPANY/NAME <i>Blarney Castle Oil Co.</i>
SAMPLED BY <i>Doug Hull</i>	COMPANY <i>Michigan Consulting and Environmental</i>	GTA PROJECT # <i>100421-4</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	CB-1	10-2-21	155pm	H2O	(A) BTEX
2	CB-2	"	1235pm	"	(A) MTBE
3	OF-1	"	210pm	"	(A) Naphthalene
4	MH-2 A	"	1135AM	"	(A) 2-Methylnaphthalene
5	MH-2 B	"	1145AM	"	(A) 1,2,4-TMB
6	MH-2 C	"	1150AM	"	(A) 1,3,5-TMB
7	MH-1 A	"	1242pm	"	(A)
8	MH-1 C	"	1250pm	"	(A)
9	MH-1 B	"	100pm	"	(A)
10	MH-3 C	"	140pm	"	(A)
11	MH-1 D	"	110pm	"	(A)

BILL TO: *Michigan Consulting and Environmental*

REPORT TO:

*Ray Andrasi randrasi@michenv.com
Doug Hull dhull@michenv.com*

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>Doug Hull</i>	<i>10/2/21 3:30 PM</i>	<i>Michigan Consulting & Env. 40C Storage</i>	<i>10/2/21 330 pm</i>
<i>Michigan Consulting & Env. 40C Storage</i>	<i>10/4/21 1:55pm</i>	<i>Doug Hull</i>	<i>10/4/21 1:55pm</i>
<i>Doug Hull</i>	<i>10/4/21 2:12pm</i>	<i>[Signature]</i>	<i>10/4/21 4:00 ONICE</i>

REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS